ATTACHMENT 3
SECURITY [40 CFR 264.14; R315-8-2.5]

3.1 GENERAL SECURITY MEASURES [40 CFR 264.14(a); R315-8-2.5]

Several types of procedures and equipment in use at the U.S. Army Dugway Proving Ground (DPG) effectively prevent the unknowing entry and minimize the possibility for unauthorized entry of persons or livestock onto DPG. The procedures and equipment for DPG facility-wide activities are discussed in Sections 2-1a(1) through 2-1a(3) of the *Dugway Proving Ground Resource Conservation and Recovery Act (RCRA) Permit*. The following paragraphs describe the security measures and procedures for Building 3445, where the Munitions Management Device, Version 1 (MMD-1) test will be conducted, and for the Munitions Storage Magazine (MSM), where chemical warfare materiel (CWM) items will be stored prior to processing.

When untreated CWM (i.e., HD, GB, VX) is present at Building 3445 access will be controlled by DPG security personnel located at Building 3442 Guard Shack. At other times, access to Building 3445 will be implemented by a visitor control trailer located at the entrance to the Building 3445 facility. This visitor control trailer will be maintained by the Small Burials Contractor (SBC) during working hours. A personnel roster and entry list for MMD-1 test personnel and visitors will be established and will be verified by DPG Security or SBC on a daily basis.

The MSM will be located adjacent to the southeast corner of Building 3445 within the perimeter fence, and set back at a minimum, 30 feet from the perimeter fence. The MSM will be equipped with two padlocks to ensure security of the CWM items in between processing campaigns and to prevent unauthorized entry into the MSM. The CWM items to be processed during the MMD-1 test will be transported from Igloo G to the MSM under DPG security escort in accordance with Army requirements. During CWM transport, U.S. Army Technical Escort will provide the vehicles and drivers to move the items to the Building 3445 facility. Also included in the transport are security guards, medics, decontamination trucks, and a representative of the DPG compliance office. The DPG Range Control will monitor the move and coordinate road access.

Vehicle access to Building 3445 will be coordinated by DPG Security. All visits to Building 3445 will be coordinated through the SBC or DPG.

3.2 24-HOUR SURVEILLANCE SYSTEM [40 CFR 264.14(b)(1); R315-8-2.5]

Specific surveillance provisions for Building 3445 will consist of armed security patrols during normal business hours. Additional surveillance provisions include three video surveillance cameras. Two cameras are located in Building 3445; one at the southwest corner and one at the northeast corner. The third camera is located southeast of the MSM. During testing, entry to Building 3445 will be limited to the north gate.

3.3 BARRIERS [40 CFR 264.14(b)(2)(i), (2)(ii); R315-8-2.5]

Building 3445 is located within the Carr Facility. The Carr Facility has a perimeter fence. Additionally, Building 3445 is surrounded by a 6-foot high, five-row barbed wire, chain-link fence. There are two 12-

foot-wide gates in the Building 3445 perimeter fence. **Figure 3-1** shows the Building 3445 fence layout. One gate is located along the southern perimeter, the other is located at the northern perimeter. These double-wide gates will be used by vehicles for resupplying test materials, delivering CWM items to the MSM, and transferring hazardous waste shipments from the temporary (less than 90 day) waste storage area located within the Building 3445 West Chamber and to the temporary (less than 90 day) waste storage area located on AA@ Street just outside the south gate. The south gate is a designated emergency egress therefore it will remain unlocked during test operations. The north gate will be the single entry/exit point during testing and can be used to accept delivery of transportable structures, including the MMD-1 process trailer, the control trailer, and the SBC laboratory. All doors to Building 3445 are locked when the facility is unmanned. The MSM will be kept locked except when adding, removing, or inspecting CWM items.

3.4 MEANS TO CONTROL ENTRY [40 CFR 264.14(b)(2)(ii); R315-8.2.5]

The north gate of Building 3445 will provide single entry/exit control for personnel during test activities.

The names of personnel assigned to Building 3445 for the MMD-1 test and visitors will be placed on an entry control list maintained at Building 3445 visitor control trailer or 3442 Guard Shack.

MMD-1 test personnel and visitors will be verified against this list for entry into the Building 3445 Facility on a daily basis. All visitors must notify DPG or SBC prior to visiting the MMD-1 test site. Visitors admitted to Building 3445 must be escorted at all times.

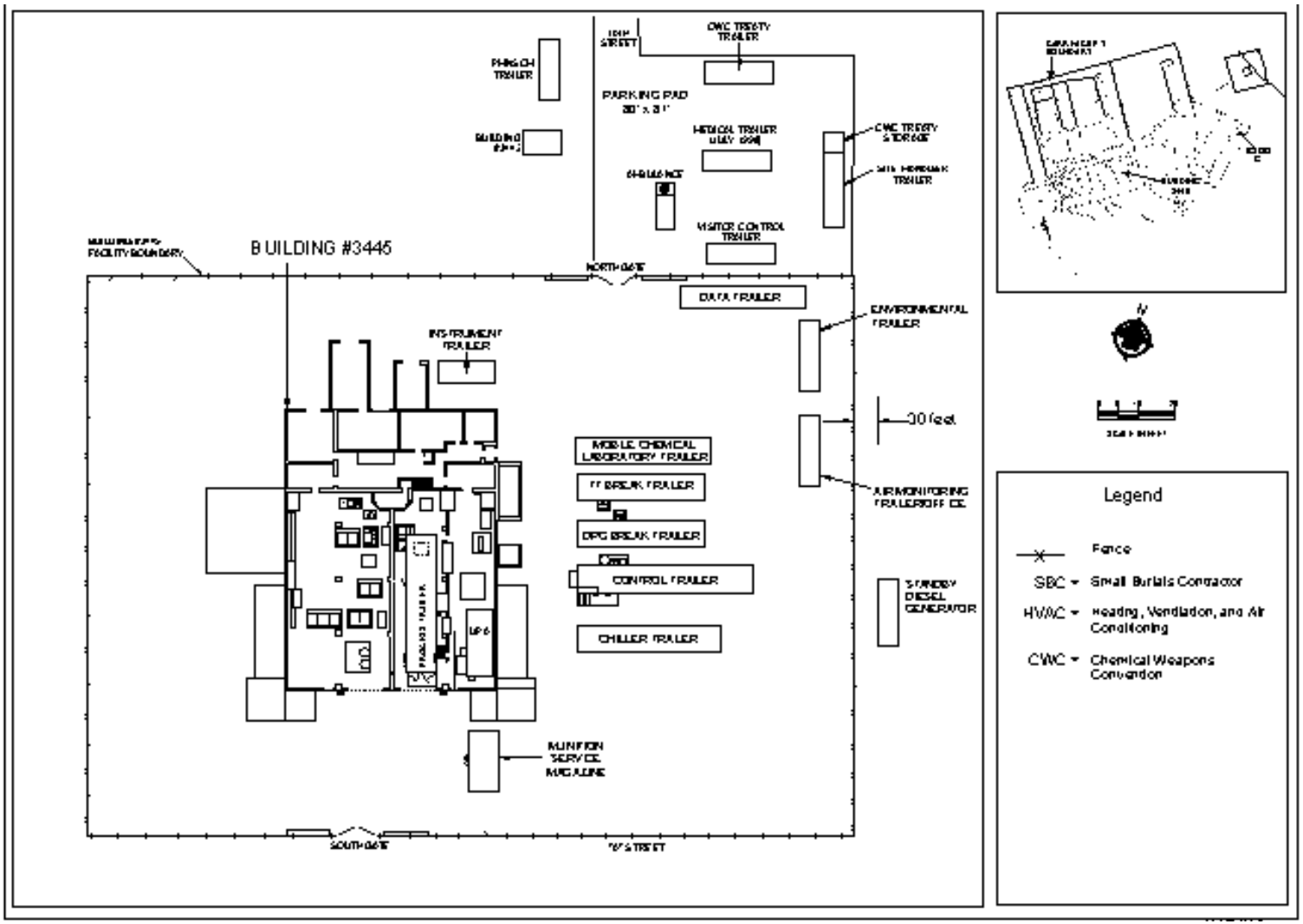

Figure 3-1. Building 3445 Fence Layout

3.5 WARNING SIGNS [40 CFR 264.14(c); R315-8-2.5]

Warning signs are posted at each of the Building 3445 gates to provide notice that the area is restricted and unauthorized entry is prohibited. These signs measure approximately 2 feet by 4 feet and have a white background with a red legend. The signs are visible from a distance of 25 feet.

In addition, signposts located on each side of the Building 3445 north and south gates will indicate the chemical agent present and type of respiratory protection (mask) required for emergency situations during testing. **Figure 3-2** shows the warning sign symbols.

Emergency exit signs and signs warning of flammable hazards are posted within the facility, and a sign for the emergency alarm switch is located on a utility pole west of Building 3445. In addition, "X" (1X) and "XXX" (3X) signs will be posted on entrance and exit doors to the Building 3445 test chamber as appropriate during test activities.

The type of warning sign (1X or 3X) to be posted depends on the air monitoring results.
Table 3-1 presents the exposure limits of the chemical agents or industrial chemicals of concern, the TWA value, type of monitoring equipment, and the location of air monitoring equipment.
A 1X sign will be posted when chemical agent operations are ongoing within the test facility. This means that proper personal protective equipment must be worn to protect against chemical agent exposure. A 1X sign will also be posted when a chemical agent may be present on equipment and structures and air monitoring results indicate chemical agent concentrations above levels denoted in **Table 3-1**. A 3X sign will be posted after air monitoring results indicate agent concentrations of equipment and structures are below levels considered safe to handle as indicated by near real time monitors (MINICAMS[7]), or when work within the structure can be conducted without the use of personal protective equipment.

A warning sign will also be posted at the MSM to state that unauthorized entry is prohibited.

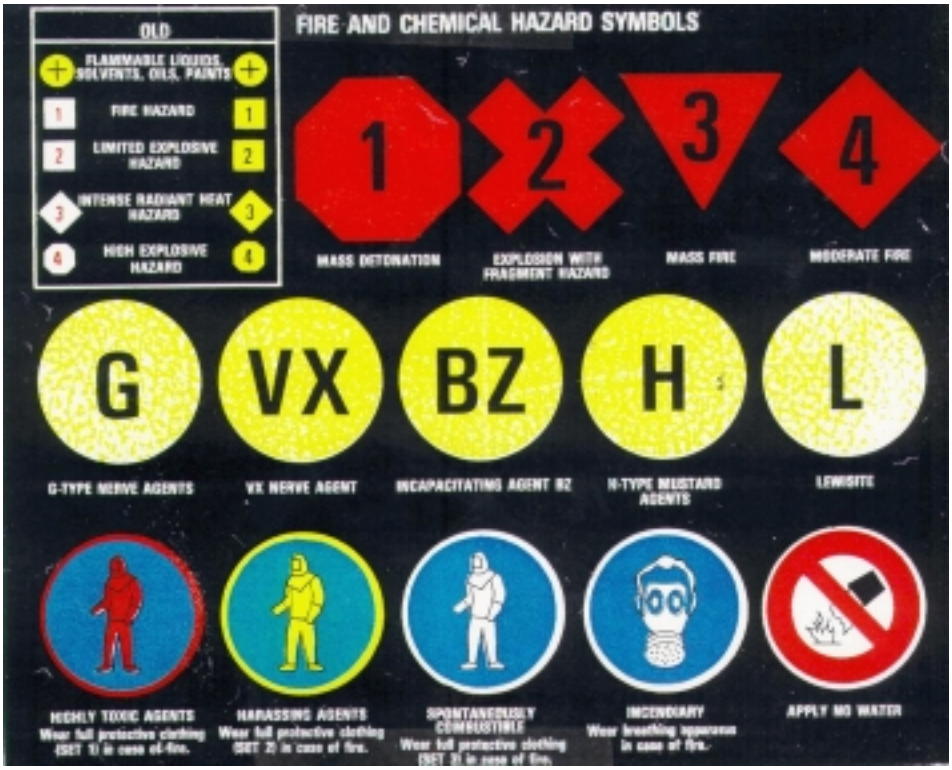

Figure 3-2. Warning Sign Symbols

Table 3-1. Exposure Limits to Determine Posting 1X or 3X Warning Signs

Chemical Agent or Industrial Chemical	TWA Value		Type of Monitoring Equipment	Location of Air Monitoring[b]
	mg/m^3	ppmv[a]		
Mustard (HD)	0.003[c,d,e,f]	0.00045	MINICAMS©/DAAMS	East Chamber
Sarin (GB)	0.0001[c,d,e,f]	0.00002	MINICAMS©/DAAMS	East Chamber
VX	0.00001[c,d,e,f]	0.0000009	MINICAMS©/DAAMS	East Chamber

NOTES:

a Parts per million by volume at 20EC and 1 atmosphere
b **Figure 5-24** details location of monitors in Building 3445 including East Chamber
c value based on 8-hour TWA
d Department of Health and Human Services, 1991
e Department of the Army, 1992a.
f Oak Ridge National Laboratory, 1992

mg/m^3 = milligram per cubic meter
TWA = time-weighted average
DAAMS = Depot Area Air Monitoring System